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DISSEMINATION CONTROL ABBREVIATIONS

NOFORN-	Not Releasable to Foreign Nationals
NOCONTRACT-	Not Releasable to Contractors or Contractor/Consultants
PROPIN-	Caution-Proprietary Information Involved
USIBONLY-	USIB Departments Only
ORCON-	Dissemination and Extraction of Information Controlled by Originator
REL . . . -	This Information has been Authorized for Release to . . .

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UPDATE FOR PLOTTING DOCUMENTATION  
February 1979

USER'S MANUAL FOR THE  
PLOTTING DISPLAY SYSTEM

Second Edition

January 1978

25X1

REVISED PAGES

Destroy old pages. Insert new pages.

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4. SELECTING OVERLAYS FOR WORLD AERONAUTICAL CHARTS (WACs)

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## THE DISPLAY FOR SELECTING OVERLAYS FOR WACs

If you selected the WAC option, the display depicted in Figure 3 will be displayed on your screen. Via this display you will define the mission coverage which includes the images you want plotted, or you may identify a particular image to be plotted, and you will select the chart or charts for which you want overlays produced.

## DEFINING MISSION COVERAGE

Two lines are provided for entering the data that defines mission coverage. Mission coverage is defined by the following entries --

imaging satellite (IS) number  
pass number  
date of pass

If you want images from more than one pass plotted, you may enter a pass range. The pass numbers and dates must be entered in chronological order; that is, you will enter the earlier pass and date first, e.g. --

IS:01 FROM PASS:01 DATE:77/06/27 TO PASS:16 DATE:77/06/30

Use the second line to define an additional pass or pass range for the same imaging satellite or to define a pass or pass range for the second imaging satellite.

The Plotting Display System will plot images from the past seven or five days of mission coverage depending upon the options you select. If you elect to use OPTION 2, which limits the images plotted to those with valid area designators, only mission coverage from the past five days is available for plotting. (See SELECTING OPTIONS for a more detailed description of OPTION 2.) When using OPTION 2, the dates you enter as pass dates must not exceed the current date nor be earlier than four days prior to the current date. When you do not use OPTION 2, the dates you enter as pass dates must not exceed the current date nor be earlier than six days prior to the current date.

## SELECTING OPTIONS

There are 4 options on this display. The first is used to indicate the charts for which you want overlays produced; the second, to limit plotting to images with area designators; and the third option, to identify a

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particular image that you want plotted. If you use the third option, do not define mission coverage, and do not use OPTION 2. If you want to produce plot overlays without image annotations, use the omit option.

The following text outlines the available options and the overlays you will receive through the use of each option. However, by combining various options, you may request plot overlays only for the charts that most suit your interests. (See the following section, GUIDELINES FOR REQUESTING PLOT OVERLAYS FOR WACs.)

OPTION 1: Use this option to indicate the WACs for which you want overlays produced. You have two choices, and you must light pen one and only one choice.

Choice 1: "LIMIT WAC'S..." - light pen this choice when you want overlays produced for specific WACs. You may enter from 1 to 10 WAC numbers.

Result : Overlays of plotted images will be produced only for the WACs you designate. However, if any of these WACs were not covered, overlays will not be produced for those WACs.

Choice 2: "ALL WACS..." - light pen this choice when you want overlays produced for all WACs covered by the mission coverage you have defined or by the image you have specified in OPTION 3 (see below).

Result : If you identified a particular image in OPTION 3, overlays will be produced for all WACs covered by this image. If you have defined mission coverage, overlays will be produced for all images included in the coverage defined.

OPTION 2: Use this option when you have defined mission coverage and want to limit the number of images plotted to those with valid area designators or specific area designators. This option provides you with 2 choices; both are optional, but should you decide to use OPTION 2, you may light pen only one choice.

Choice 1: "LIMIT TO AREAS..." - light pen this choice when you want to limit plotting to those images with specific area designators. You may enter from 1 to 7 area designators.

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**Result :** Only the images included in the mission coverage you have defined with the area designators you specify may be plotted. If you light penned Choice 2 (ALL WACS) under OPTION 1, overlays will be produced for all WACS covered by the images with the area designators you indicate via this option. If you indicated specific WACS via Choice 1 under OPTION 1, overlays will be produced only for those WACS specified which are covered by images with the area designators specified. Should any specified WACS not be covered, overlays will not be produced for those WACS.

**Choice 2:** "ALL IMAGES WITH VALID AREA DESIGNATOR" - light pen this choice when you want only images with valid area designators plotted.

**Result :** Only the images included in the mission coverage you have defined with valid area designators may be plotted. If you light penned Choice 2 (ALL WACS) under OPTION 1, overlays will be produced for all WACS covered by all images with valid area designators. If you indicated specific WACS via Choice 1 under OPTION 1, overlays will be produced only for those WACS specified which are covered by images with valid area designators. Should any of the specified WACS not be covered, overlays will not be produced for those WACS.

**OPTION 3:** Use this option when you want one particular image plotted. When you use OPTION 3, do not define mission coverage, and do not use OPTION 2. After light penning OPTION 3, enter the date and image identifier of the image you want plotted. The date of the image must not exceed the current date nor be earlier than six days prior to the current date.

**Result :** The image you identify will be plotted. If you selected Choice 1 (LIMIT WAC'S...) under OPTION 1, overlays of this image will be produced for the WACS you have designated. Should any of the WACS not be covered, overlays will not be produced for those WACS. If you light penned Choice 2 (ALL WACS) under OPTION 1, overlays will be produced for all WACS covered by the image you identify via this option.

**OMIT  
OPTION :** Use this option if you wish to produce plot overlays without image annotations. You may use it with any of the other three options.

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Result : Plot overlays without image annotations will be produced.  
The other data that appears on the overlays will depend upon the other option(s) that you chose.

#### **GUIDELINES FOR REQUESTING PLOT OVERLAYS FOR WACs**

The Plotting Display System requires that you indicate either a specific image to be plotted via OPTION 3, or a range of images to be plotted by defining mission coverage. The system also requires that you choose to have plots of the image or images produced on overlays either for all WACs or for specified WACs via OPTION 1. Once you have satisfied these two requirements, you need not input any more data to the system. However, you are provided with other choices which you may use in combination with your required input to request the plot overlays from the system that best suit your interests.

##### Identifying A Single Image To Be Plotted

When you want a single image plotted, use OPTION 3. The following guidelines suggest the possible combination of options that you may use with OPTION 3 to limit the plotting of this image to those charts that best suit your interests.

1. To request plot overlays for specific charts, use Choice 1 (LIMIT WACS) under OPTION 1. You may specify by chart number from 1 to 10 charts. However, if any of the specified charts are not covered by the image you have identified, overlays will not be produced for those charts. For this reason, it is recommended that you use Choice 2 (ALL WACS) under OPTION 1 to ensure that you receive all possible plots of the image you have identified via OPTION 3.
2. To request plot overlays for all charts covered by this image, light pen Choice 2 (ALL WACS) under OPTION 1.
3. NOTE: You must light pen one choice under OPTION 1.
4. NOTE: When you use OPTION 3, you may not use OPTION 2.

##### Identifying A Range Of Images To Be Plotted

If you are interested in receiving plot overlays for a range of images, define the mission coverage which includes the images of interest. The following guidelines suggest the various combinations of options you may select to limit the plotting of imagery defines to those charts that most suit your interests.

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1. To request plot overlays for specific charts, use Choice 1 (LIMIT WACS) under OPTION 1. You may specify by chart number from 1 to 10 charts. The imagery covering the charts you specify will be plotted and overlays produced for those charts. However, should any of the charts you specify not be covered, overlays will not be produced for those charts. Generally, requesting overlays for specific charts will limit the plotting sufficiently so that it will not be necessary to use other options to further limit your plotting requests. However, you may use OPTION 2 to limit the plotting to only those images with specified area designators (Choice 1 - you may specify from 1 to 7 area designators) or to all images with valid area designators that also cover the specified charts (Choice 2).
2. To request plot overlays for all charts covered by the imagery you have defined, light pen Choice 2 (ALL WACS) under OPTION 1. NOTE: The volume of overlays produced may be great, and you might want to consider combining this choice with other options to limit your plotting requests.
3. To request plot overlays of images with specific area designators use Choice 1 (LIMIT TO AREAS...) under OPTION 2. You may specify from 1 to 7 area designators. Generally, this choice is used in combination with Choice 2 (ALL WACS) under OPTION 1 to limit the output to overlays for only those charts covered by images with specified area designators.
4. To request plot overlays of all images with valid area designators, use Choice 2 under OPTION 2. Generally, this choice is used in combination with Choice 2 (ALL WACS) under OPTION 1 to limit the output to overlays for only those charts covered by imagery with valid area designators.
5. NOTE: You must light pen one choice under OPTION 1.
6. NOTE: When you define mission coverage, you may not use OPTION 3.

**INSTRUCTIONS**

- \* **DEFINING MISSION COVERAGE** - you must define mission coverage if you do not use OPTION 3. Two lines are provided on the display for this purpose. The following entries are required -- imaging satellite number, pass number, and date of pass. If you want to enter a pass range, enter a second pass number and date. On the first line type your entries over the underscored formats, e.g. --

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Use the second line to enter an additional pass or pass range.

- \* OPTION 1 - you must select one of the two choices under OPTION 1. If you select the first choice light pen the brackets and type from one to ten WAC numbers over the underscored formats, e.g. --

OPTION 1: [-] LIMIT WAC'S NNNN ...

If you select the second choice, light pen the brackets where the following appears on the display --

OR [-] ALL WACS IDS COVERED BY SELECTED I/S AND PASS(ES)

- \* OPTION 2 - you may light pen one choice under OPTION 2, but neither is required. If you use this option do not use OPTION 3. To select the first choice, light pen the brackets and type from one to seven area designators over the underscored formats, e.g. --

OPTION 2: [-] LIMIT TO AREAS ANNN ...

To select the second choice, light pen the brackets where the following appears on the display --

OR [-] ALL IMAGES WITH VALID AREA DESIGNATOR

- \* OPTION 3 - if you elect to use this option, do not define mission coverage, and do not use OPTION 2. Light pen the brackets and type the image number and date over the underscored formats where the following appears on the display --

OPTION 3: [-] LIMIT TO IMAGE ID: YY/MM/DD AANNNN

- \* OMIT OPTION: - This option may be used with any of the other three options. Light pen the brackets where the following appears on the display --

CHOOSE OMIT OPTION:

[-] OMIT IMAGE ANNOTATION

- \* When you have entered all the appropriate data, transmit the display by pressing the TRANSMIT key.
- \* If you have entered all data correctly, you will receive a display containing this message:

ALL SELECTIONS VALID, PLOTTING FUNCTIONS ACTIVATED

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7. SELECTING OVERLAYS FOR  
WORLD PLOTTING SERIES CHARTS

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<div></div>	<b>TOP SECRET</b>	<b>WORKING MATERIAL</b>
<b>PLOTTING DISPLAY SYSTEM</b> SELECTED SCALE IS 1:18,000,000		
ENTER DATA FOR PLOT OVERLAYS: (MAXIMUM RANGE OF 7 DAYS)		
I/S: <u>NN</u>	FROM PASS: <u>PP</u>	DATE: <u>YY/MM/DD</u> TO PASS: <u>PP</u> DATE: <u>YY/MM/DD</u>
I/S: <u>NN</u>	FROM PASS: <u>PP</u>	DATE: <u>YY/MM/DD</u> TO PASS: <u>PP</u> DATE: <u>YY/MM/DD</u>
WPS CHARTS DESIRED:		
<input type="checkbox"/> ALL		
<input type="checkbox"/> EURASIA (WPS-1)	<input type="checkbox"/> AFRICA (WPS-4)	
<input type="checkbox"/> NORTH AMERICA (WPS-2)	<input type="checkbox"/> OCEANIA (WPS-5)	
<input type="checkbox"/> SOUTH AMERICA (WPS-3)	<input type="checkbox"/> ANTARCTICA (WPS-6)	
	<input type="checkbox"/> ARCTICA (WPS-7)	
CHOOSE OMIT OPTIONS:		
<input type="checkbox"/> OMIT FRAMES		
<input type="checkbox"/> OMIT STRIPS		
<input type="checkbox"/> OMIT IMAGE ANNOTATION		
<input type="checkbox"/> OMIT GROUND TRACE		
<b>WORKING MATERIAL</b>	<b>TOP SECRET</b>	<div></div>

Figure 6: The display you will use to select overlays for World Plotting Series Charts.

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